

Interference
10/690037

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	947	((two adj2 dimensional) with (table\$1 or grid\$1 or spreadsheet\$1)) and (window\$1 or frame\$1 or frameset\$1) and (row\$1) and column\$1	US-PGPUB	OR	OFF	2006/11/20 10:59
L2	469	1 and @ad<="20031021"	US-PGPUB	OR	OFF	2006/11/20 10:59
L3	325	((two adj2 dimensional) with (large or wide with (table\$1 or grid\$1 or spreadsheet\$1))) and (window\$1 or frame\$1 or frameset\$1) and (row\$1) and column\$1	US-PGPUB	OR	OFF	2006/11/20 11:00
L4	153	3 and @ad<="20031021"	US-PGPUB	OR	OFF	2006/11/20 11:00
L5	13	((two adj2 dimensional) with (large or wide with (table\$1 or grid\$1 or spreadsheet\$1))) and (window\$1 or frame\$1 or frameset\$1) and ((hover\$3 or overlap\$4) with ((row\$1) and column\$1))	US-PGPUB	OR	OFF	2006/11/20 11:00
L6	5	5 and @ad<="20031021"	US-PGPUB	OR	OFF	2006/11/20 11:01

13 11/20/06

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	947	((two adj2 dimensional) with (table\$1 or grid\$1 or spreadsheet\$1)) and (window\$1 or frame\$1 or frameset\$1) and (row\$1) and column\$1	US-PGPUB	OR	OFF	2006/11/20 10:59
L2	469	1 and @ad<="20031021"	US-PGPUB	OR	OFF	2006/11/20 10:59
L3	325	((two adj2 dimensional) with (large or wide with (table\$1 or grid\$1 or spreadsheet\$1))) and (window\$1 or frame\$1 or frameset\$1) and (row\$1) and column\$1	US-PGPUB	OR	OFF	2006/11/20 11:00
L4	153	3 and @ad<="20031021"	US-PGPUB	OR	OFF	2006/11/20 11:00
L5	13	((two adj2 dimensional) with (large or wide with (table\$1 or grid\$1 or spreadsheet\$1))) and (window\$1 or frame\$1 or frameset\$1) and ((hover\$3 or overlap\$4) with ((row\$1) and column\$1))	US-PGPUB	OR	OFF	2006/11/20 11:02
L6	5	5 and @ad<="20031021"	US-PGPUB	OR	OFF	2006/11/20 11:02
L7	2467	(715/503,784,509,853,517).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/20 11:02
L8	252	(345/684).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/20 11:02
L9	2685	7 8	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/20 11:02
L10	470	9 and @ad<="20031021"	US-PGPUB	OR	OFF	2006/11/20 11:02
L11	0	10 and ((two adj2 dimensional) with (large or wide with (table\$1 or grid\$1 or spreadsheet\$1))) and (window\$1 or frame\$1 or frameset\$1) and ((hover\$3 or overlap\$4) with ((row\$1) and column\$1))	US-PGPUB	OR	OFF	2006/11/20 11:02
S1	341	(715/503).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/20 10:57

EAST Search History

S2	307	S1 and @ad<="20031021"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/23 16:34
S3	38	S2 and (overlay\$3 or hover\$3 or overlap\$4) with (table\$1 or spreadsheet\$1 or (spread adj sheet\$1) or spread-sheet\$1 or row\$1 or column\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/23 16:23
S4	11	S3 and (ibm.as. or international.as.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/23 16:23
S5	27	S3 not S4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/23 16:21
S6	20	S2 and (overlay\$3 or hover\$3) with (table\$1 or spreadsheet\$1 or (spread adj sheet\$1) or spread-sheet\$1 or row\$1 or column\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/23 16:23
S7	2	S6 and (ibm.as. or international.as.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/23 16:23
S8	18	S6 not S7	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/23 16:28
S9	4487	(off-screen or (off adj screen) or offscreen)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/23 16:33
S10	10	S1 and S9	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/23 16:28
S11	5685	(off-display or (off adj display) or offdisplay)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/23 16:33

EAST Search History

S12	196	(table\$1 or spreadsheet\$1 or grid\$1) same (off-display or (off adj display) or offdisplay)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/23 16:33
S13	185	S12 and @ad<="20031021"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/23 16:36
S14	152	S13 not (scroll\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/23 16:36
S15	346	(715/503).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/08 11:59
S16	309	S15 and @ad<="20031021"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/08 12:00
S17	6	US-6035309-\$.DID. OR US-5574836-\$.DID. OR US-4506343-\$.DID.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/08 12:33
S18	66	("4065202" "4479784" "4649425" "4736199" "4910683" "4984179" "4985762" "5040055" "5083199" "5193148" "5257345" "5276785" "5287437" "5311220" "5349379" "5422653" "5475812" "5497454").PN. OR ("5574836"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/08 12:00
S19	65	S18 and @ad<="20031021"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/08 12:08
S20	16	("4386410" "4412294" "4533910" "4574364" "4786897" "4803478" "4873514" "4962475" "5006837" "5014222" "5038138" "5075673" "5208588" "5247611" "5263134").PN. OR ("6035309").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/08 12:04

EAST Search History

S21	0	S20 and hovering	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/08 12:04
S22	28	hover\$3 near view\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/08 12:06
S23	0	"200200954051"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/08 12:05
S24	1	"20020095405"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/08 12:05
S25	864	(wrapp\$3 near (table\$1 or spreadsheet\$1 or column\$1 or row\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/08 12:09
S26	753	S25 and @ad<="20031021"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/08 12:09
S27	663	S26 and @pd<="20031021"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/08 12:08
S28	473	(wrapp\$3 near (spreadsheet\$1 or column\$1 or row\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/08 12:09
S29	429	S28 and @ad<="20031021"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/08 12:22
S30	377	S29 and @pd<="20031021"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/08 12:22
S31	346	(715/503).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/08 12:22

EAST Search History

S32	309	S31 and @ad<="20031021"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/08 12:22
S33	235	S32 and @pd<="20031021"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/08 12:22
S34	13	S33 and wrapp\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/08 12:22
S35	1	"20060026499"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/08 12:34
S36	1	"20060026498"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/08 12:34
S37	0	S36 and hover	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/08 12:34
S38	0	S36 and hover\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/08 12:34
S39	0	S35 and hover\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/08 12:34
S40	6	US-6035309-\$.DID. OR US-5574836-\$.DID. OR US-4506343-\$.DID.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/03 10:30
S41	0	2002/0095405	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/03 10:30

EAST Search History

S42	2	"20020095405"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/03 10:30
S43	16	("4386410" "4412294" "4533910" "4574364" "4786897" "4803478" "4873514" "4962475" "5006837" "5014222" "5038138" "5075673" "5208588" "5247611" "5263134").PN. OR ("6035309").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/03 10:34
S44	186	hover\$3 with window\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/06 08:34
S45	242	(715/864).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/06 08:34
S46	193	S45 and @ad<="20031021"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/06 08:35
S47	123	S45 and (table\$1 or spreadsheet\$1 or spread-sheet\$1 or (spread adj sheet\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/06 08:37
S48	32	S45 and ((table\$1 or spreadsheet\$1 or spread-sheet\$1 or (spread adj sheet\$1)) with (navigat\$4 or mov\$3 or scroll\$3 or view\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/06 08:37
S49	15	("5227771" "5263134" "5337405" "5379372" "5450536" "5613131" "5621876").PN. OR ("5812131").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/06 08:55
S50	215	(715/509-510).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/13 15:36

EAST Search History

S51	185	S50 and @ad<="20031021"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/13 15:36
S52	19	S51 and (pervasive or pda or mobile or cellular)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/13 15:37
S53	2094	((off or beyond) adj screen\$) same display\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/20 14:29
S54	364	(715/503).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/20 14:27
S55	314	S54 and @ad<="20031021"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/20 14:29
S56	1749	S53 and @ad<="20031021"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/20 14:28
S57	24462	("715").CLAS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/20 14:28
S58	367	S56 and S57	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/20 14:28
S59	100	((beyond) adj screen\$) same display\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/20 14:29
S60	82	S59 and @ad<="20031021"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/20 14:47

EAST Search History

S61	63	S60 not scroll\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/20 14:34
S62	52	S60 not (scal\$3 or zoom\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/20 14:34
S63	39	S61 not (scal\$3 or zoom\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/20 14:46
S64	8978	(small adj (display\$1 or screen\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/20 14:46
S65	324	(small adj (display\$1 or screen\$1)) same (table\$1 or spreadsheet\$1 or (spread adj sheet\$1) or grid\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/20 14:47
S66	239	S65 and @ad<="20031021"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/20 14:48
S67	214	S66 not tablet\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/20 14:49
S68	67	S67 and scroll\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/20 14:49
S69	147	S67 not S68	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/20 14:49
S70	140	S69 not zoom\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/20 14:51

EAST Search History

S71	33	S70 and (arrow\$1 or indicator\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/20 14:53
S72	3	S71 and ((off or beyond) with (screen\$1 or display\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/20 14:53
S73	5	"6313848"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/05 09:10
S74	2	("6313848").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/05 09:10
S75	6	("5502805" "5664127" "5808914" "5905476" "6065022").PN. OR ("6313848").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/05 09:15
S76	111	(table\$1 or spreadsheet\$1) with (off adj (screen\$1 or display\$1))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/05 09:17
S77	34	S76 and (overlay\$3 or hover\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/05 09:18
S78	428	(table\$1 or spreadsheet\$1 or row\$1 or column\$1 or cell\$1) with (off adj (screen\$1 or display\$1))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/05 09:17
S79	918	(table\$1 or spreadsheet\$1 or row\$1 or column\$1 or cell\$1) with ((off or wid\$5) adj (screen\$1 or display\$1))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/05 09:18
S80	63	S78 and (overlay\$3 or hover\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/05 09:19
S81	0	S78 and (hover\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/05 09:19
S82	11	S78 and (overlay\$3 with (table\$1 or row\$1 or column\$1 or spreadsheet\$1))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/05 09:19

EAST Search History

S83	32	(US-20060026498-\$ or US-20040095400-\$ or US-20030188259-\$ or US-20020095405-\$ or US-20020188774-\$ or US-20030025737-\$ or US-20060026499-\$ or US-20040100510-\$ or US-20020122080-\$).did. or (US-5588099-\$ or US-5442743-\$ or US-6839575-\$ or US-6639611-\$ or US-5014222-\$ or US-6976226-\$ or US-5450536-\$ or US-5790118-\$ or US-6035309-\$ or US-6397259-\$ or US-5812131-\$ or US-5574836-\$ or US-5208588-\$ or US-6199080-\$ or US-4786897-\$ or US-5038138-\$ or US-4533910-\$ or US-5613131-\$ or US-5808914-\$ or US-6065022-\$). did. or (EP-94494-\$ or US-6035309-\$ or US-5574836-\$). did.	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/04/05 09:38
S84	10	S83 and (hover\$3 or overla\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/05 09:44
S85	976	(reflow\$3 or re-flow\$3 or (re adj flow\$3)) with (table\$1 or row\$1 or column\$1 or spreadsheet\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/05 09:45
S86	50	S85 and ((small\$3 or limit\$3 or off or wid\$3) with (screen\$1 or display\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/05 09:46
S87	16	US-5317686-\$.DID. OR US-5371675-\$.DID. OR US-5717939-\$.DID. OR US-5801701-\$.DID. OR US-6225996-\$.DID. OR US-6549878-\$.DID. OR US-6631497-\$.DID. OR US-6691281-\$.DID.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/05 11:45
S88	4	S87 and small	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/05 11:37

EAST Search History

S89	3	S87 and ((small\$3 or limit\$3 or pda or pervasive) with (screen\$1 or display\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/05 11:42
S90	8	("5588105" "5715413" "6055548").PN. OR ("6225996"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/05 11:42
S91	4	S90 and ((small\$3 or limit\$3 or pda or pervasive) with (screen\$1 or display\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/05 11:45
S92	8	US-5801701-\$.DID. OR US-6225996-\$.DID. OR US-5995103-\$.DID. OR US-6470349-\$.DID.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/05 11:45
S93	1	S92 and ((small\$3 or limit\$3 or pda or pervasive) with (screen\$1 or display\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/05 11:46
S94	2	"20050034060"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/05 11:46
S95	34	(US-20030188259-\$ or US-20040100510-\$ or US-20050034060-\$ or US-20060026499-\$ or US-20020095405-\$ or US-20020188774-\$ or US-20020122080-\$ or US-20040095400-\$ or US-20030025737-\$ or US-20060026498-\$).did. or (US-6065022-\$ or US-5808914-\$ or US-5790118-\$ or US-5613131-\$ or US-5442743-\$ or US-5038138-\$ or US-6976226-\$ or US-7000181-\$ or US-6225996-\$ or US-5812131-\$ or US-5588099-\$ or US-4786897-\$ or US-5208588-\$ or US-6199080-\$ or US-6839575-\$ or US-5574836-\$ or US-6035309-\$ or US-6639611-\$ or US-5450536-\$ or US-5014222-\$ or US-6397259-\$).did. or (US-5574836-\$ or US-6035309-\$ or EP-94494-\$).did.	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/04/07 08:26

EAST Search History

S96	2	("6225996").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/07 08:26
S97	0	S96 and hover\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/07 09:00
S98	2	("6313848").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/07 09:00
S99	1	S98 and (select\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/07 09:16
S10 0	0	S98 and (icon\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/07 09:00
S10 1	1	S98 and (button\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/07 09:00
S10 2	301	(spreadsheet\$3 or (spread adj sheet\$3)) with (icon\$1 or button\$1) with (select\$3 or toggl\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/07 09:18
S10 3	252	S102 and @ad<="20031021"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/07 09:18
S10 4	77	(spreadsheet\$3 or (spread adj sheet\$3)) with (icon\$1 or button\$1) with (select\$3 or toggl\$3) with (column\$1 or row\$1 or cell\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/07 09:18
S10 5	67	S104 and @ad<="20031021"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/07 09:40

EAST Search History

S10 6	757	(715/503,784,509).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/07 09:40
S10 7	237	(345/684).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/07 09:40
S10 8	960	S106 S107	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/07 09:40
S10 9	852	S108 and @ad<="20031021"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/07 09:40
S11 0	604	S109 and (table\$1 or spreadsheet\$3 or (spread adj sheet\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/07 09:41
S11 1	79	S109 and (table\$1 or spreadsheet\$3 or (spread adj sheet\$3)) and (float\$3 or hover\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/07 09:42
S11 2	2	("6202060").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/12 12:39
S11 3	2	"20050086610"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/12 12:01
S11 4	2	("6,256,649").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/12 12:04
S11 5	2	("6,185,582").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/12 12:12

EAST Search History

S11 6	2	"20050076292"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/12 12:12
S11 7	2	("5305435").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/12 12:39
S11 8	128	("4555775" "4653020" "4712191" "4769636" "4780709" "4783648" "4819189" "4831556" "4862389" "4899136" "5060170" "5107443" "5140677" "5140678").PN. OR ("5305435"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/12 12:41
S11 9	87	S118 and (table\$1 or spreadsheet\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/12 12:42
S12 0	2	("6828988").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/12 13:47
S12 1	2	("6907580").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/12 13:47
S12 2	2	("5060170").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/18 11:48
S12 3	2	("5847706").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/18 11:50
S12 4	2	("6185589").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/18 11:52

EAST Search History

S12 5	2	("6907580").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/18 11:54
S12 6	13732	(off near (screen\$1 or display\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/18 11:54
S12 7	20003	(off near (screen\$1 or display\$1 or window\$1 or column\$1 or row\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/18 12:16
S12 8	1207	(see\$3 or view\$3) with (off near (screen\$1 or display\$1 or window\$1 or column\$1 or row\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/18 11:55
S12 9	977	S128 and @ad<="20031021"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/18 12:26
S13 0	25932	("715").CLAS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/18 11:56
S13 1	75326	("345").CLAS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/18 11:56
S13 2	127	S129 and S130	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/18 12:12
S13 3	74	S132 and ((limit\$3 or small or pervasive) with (display\$1 or screen\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/18 12:13
S13 4	7	S132 and ((off near (screen\$1 or display\$1 or window\$1)) with content\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/18 12:26

EAST Search History

S13 5	32	S129 and ((off near (screen\$1 or display\$1 or window\$1)) with content\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/18 12:24
S13 6	175	S129 and S131	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/18 12:25
S13 7	7	S136 and ((off near (screen\$1 or display\$1 or window\$1)) with content\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/18 12:24
S13 8	802	S129 not S131	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/18 12:25
S13 9	698	S138 not S130	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/18 12:25
S14 0	718	((off near3 (screen\$1 or display\$1 or window\$1)) with content\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/18 12:26
S14 1	590	S140 and @ad<="20031021"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/18 12:57
S14 2	28542	(view\$3 or display\$3) near (table\$1 or tabular or spreadsheet\$1 or (spread adj sheet\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/18 12:58
S14 3	23820	S142 and @ad<="20031021"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/18 12:57
S14 4	1415	(view\$3 or display\$3) near (table\$1 or tabular or spreadsheet\$1 or (spread adj sheet\$1) or grid\$4) near (content\$1 or value\$1 or cell\$1 or row\$1 or column\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/18 13:00

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S14 5	233	S144 and (off-screen\$1 or (off adj screen\$1) or unviewable or hidden)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/18 13:00
S14 6	1536	(715/503,784,684,509,853).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/20 09:40
S14 7	1335	S146 and @ad<="20031021"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/20 09:41
S14 8	218	S147 and (overla\$4 or hover\$3) and (spreadsheet\$1 or tables or (spread adj sheet\$1) or grid\$1 or spread-sheet\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/20 09:42
S14 9	72757	(display\$3 or present\$3 or visual\$5) near (table\$1 or spreadsheet\$1 or (spread adj sheet\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/14 08:56
S15 0	1073	(display\$3 or present\$3 or visual\$5) near (spreadsheet\$1 or (spread adj sheet\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/14 08:56
S15 1	829	S150 and @ad<="20031221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/14 08:58
S15 2	21	S151 and (off adj (screen or window))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/14 08:58

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1 [Status report of the graphic standards planning committee](#)



Computer Graphics staff

August 1979 **ACM SIGGRAPH Computer Graphics**, Volume 13 Issue 3

Publisher: ACM Press

Full text available: [pdf\(15.01 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#)

2 [Pen computing: a technology overview and a vision](#)



André Meyer

July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3

Publisher: ACM Press

Full text available: [pdf\(5.14 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions. Starting with a short historic ...

3 [Fast detection of communication patterns in distributed executions](#)



Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**



Publisher: IBM Press

Full text available: [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

4 [Interactive Editing Systems: Part II](#)



-  Norman Meyrowitz, Andries van Dam
 September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3
Publisher: ACM Press
 Full text available:  [pdf\(9.17 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



5 Texture mapping 3D models of real-world scenes

-  Frederick M. Weinhaus, Venkat Devarajan
 December 1997 **ACM Computing Surveys (CSUR)**, Volume 29 Issue 4
Publisher: ACM Press
 Full text available:  [pdf\(1.98 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Texture mapping has become a popular tool in the computer graphics industry in the last few years because it is an easy way to achieve a high degree of realism in computer-generated imagery with very little effort. Over the last decade, texture-mapping techniques have advanced to the point where it is possible to generate real-time perspective simulations of real-world areas by texture mapping every object surface with texture from photographic images of these real-world areas. The technique ...



Keywords: anti-aliasing, height field, homogeneous coordinates, image perspective transformation, image warping, multiresolution data, perspective projection, polygons, ray tracing, real-time scene generation, rectification, registration, texture mapping, visual simulators, voxels

6 Human-computer interface development: concepts and systems for its management



-  H. Rex Hartson, Deborah Hix
 March 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 1
Publisher: ACM Press
 Full text available:  [pdf\(7.97 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Human-computer interface management, from a computer science viewpoint, focuses on the process of developing quality human-computer interfaces, including their representation, design, implementation, execution, evaluation, and maintenance. This survey presents important concepts of interface management: dialogue independence, structural modeling, representation, interactive tools, rapid prototyping, development methodologies, and control structures. *Dialogue independence* is th ...

7 Draft Proposed: American National Standard—Graphical Kernel System

-  Technical Committee X3H3 - Computer Graphics
 February 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue SI
Publisher: ACM Press
 Full text available:  [pdf\(16.07 MB\)](#) Additional Information: [full citation](#)

8 The Rendezvous architecture and language for constructing multiuser applications

-  Ralph D. Hill, Tom Brinck, Steven L. Rohall, John F. Patterson, Wayne Wilner
 June 1994 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 1 Issue 2
Publisher: ACM Press
 Full text available:  [pdf\(3.25 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

When people have meetings or discussions, frequently they use conversational props:

physical models, drawings, or other concrete representations of information used to enhance the exchange of information. If the participants are geographically separated, it is difficult to make effective use of props since each physical prop can only exist in one place. Computer applications that allow two or more users to simultaneously view and manipulate the same data can be used to augm ...

Keywords: CSCW, UIMS, constraint maintenance, synchronous groupware

9 Evaluating 3D task performance for fish tank virtual worlds



Kevin W. Arthur, Kellogg S. Booth, Colin Ware

July 1993 **ACM Transactions on Information Systems (TOIS)**, Volume 11 Issue 3

Publisher: ACM Press

Full text available: pdf(2.04 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: head-coupled display, stereopsis, virtual reality, virtual worlds

10 Special issue: AI in engineering



D. Sriram, R. Joobbani

April 1985 **ACM SIGART Bulletin**, Issue 92

Publisher: ACM Press

Full text available: pdf(8.79 MB) Additional Information: [full citation](#), [abstract](#)

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

11 A tour through cedar



Warren Teitelman

March 1984 **Proceedings of the 7th international conference on Software engineering**

Publisher: IEEE Press

Full text available: pdf(2.08 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

12 Designs conducive to the use of efficient strategies



Suresh K. Bhavnani

August 2000 **Proceedings of the conference on Designing interactive systems: processes, practices, methods, and techniques**

Publisher: ACM Press

Full text available: pdf(239.14 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Studies on the widespread inefficient use of complex computer applications have suggested that users need to learn efficient strategies in addition to learning how to use tools. This paper argues that our growing understanding of strategic knowledge can be used to guide designers develop systems which are conducive to the use of efficient strategies. The paper first describes ten general strategies which appear to be useful across three computer application domains. Next, the paper discusse ...

Keywords: design, efficiency, strategic knowledge, strategy, training

13 Navigating within the data: Table lens as a tool for making sense of data

Peter Pirolli, Ramana Rao

May 1996 **Proceedings of the workshop on Advanced visual interfaces****Publisher:** ACM PressFull text available: pdf(2.52 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The Table Lens is a visualization for searching for patterns and outliers in multivariate datasets. It supports a lightweight form of exploratory data analysis (EDA) by integrating a familiar organization, the table, with graphical representations and a small set of direct manipulation operators. We examine the EDA process as a special case of a generic process, which we call *sensemaking*. Using a GOMS methodology, we characterize a few central EDA tasks and compare performance of the Tabl ...

Keywords: GOMS, database visualization, evaluation, exploratory data analysis, information visualization, multivariate visualization

14 User interface software tools

Brad A. Myers

March 1995 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 2 Issue 1**Publisher:** ACM PressFull text available: pdf(3.25 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Almost as long as there have been user interfaces, there have been special software systems and tools to help design and implement the user interface software. Many of these tools have demonstrated significant productivity gains for programmers, and have become important commercial products. Others have proven less successful at supporting the kinds of user interfaces people want to build. This article discusses the different kinds of user interface software tools, and investigates why some ...

Keywords: interface builders, toolkits, user interface development environments, user interface software

15 Special issue: Game-playing programs: theory and practice

M. A. Bramer

April 1982 **ACM SIGART Bulletin**, Issue 80**Publisher:** ACM PressFull text available: pdf(9.23 MB) Additional Information: [full citation](#), [abstract](#)

This collection of articles has been brought together to provide SIGART members with an overview of Artificial Intelligence approaches to constructing game-playing programs. Papers on both theory and practice are included.

16 Graphical definitions: expanding spreadsheet languages through direct manipulation and gestures

Margaret M. Burnett, Herkimer J. Gottfried

March 1998 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 5 Issue 1**Publisher:** ACM PressFull text available: pdf(1.64 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

In the past, attempts to extend the spreadsheet paradigm to support graphical objects, such as colored circles or user-defined graphical types, have led to approaches featuring either a direct way of creating objects graphically or strong compatibility with the

spreadsheet paradigm, but not both. This inability to conveniently go beyond numbers and strings without straying outside the spreadsheet paradigm has been a limiting factor in the applicability of s ...

Keywords: direct manipulation, forms/3, gestures, programming by demonstration

17 Ordered and quantum treemaps: Making effective use of 2D space to display



hierarchies

Benjamin B. Bederson, Ben Shneiderman, Martin Wattenberg

October 2002 **ACM Transactions on Graphics (TOG)**, Volume 21 Issue 4

Publisher: ACM Press

Full text available: [pdf\(3.15 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Treemaps, a space-filling method for visualizing large hierarchical data sets, are receiving increasing attention. Several algorithms have been previously proposed to create more useful displays by controlling the aspect ratios of the rectangles that make up a treemap. While these algorithms do improve visibility of small items in a single layout, they introduce instability over time in the display of dynamically changing data, fail to preserve order of the underlying data, and create layouts th ...

Keywords: Hierarchies, human-computer interaction, image browsers, information visualization, jazz, ordered treemaps, treemaps, trees, zoomable user interfaces (ZUIs).

18 MPEG-4: an object-based multimedia coding standard supporting mobile applications

Atul Puri, Alexandros Eleftheriadis

June 1998 **Mobile Networks and Applications**, Volume 3 Issue 1

Publisher: Kluwer Academic Publishers

Full text available: [pdf\(747.80 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The ISO MPEG committee, after successful completion of the MPEG-1 and the MPEG-2 standards is currently working on MPEG-4, the third MPEG standard. Originally, MPEG-4 was conceived to be a standard for coding of limited complexity audio-visual scenes at very low bit-rates; however, in July 1994, its scope was expanded to include coding of scenes as a collection of individual audio-visual objects and enabling a range of advanced functionalities not supported by other standards. One of the ke ...

19 The 8 by 8 display



R. F. Sproull, I. Sutherland, A. Thomson, S. Gupta, C. Minter

January 1983 **ACM Transactions on Graphics (TOG)**, Volume 2 Issue 1

Publisher: ACM Press

Full text available: [pdf\(1.53 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

20 Interactive Editing Systems: Part I



Norman Meyrowitz, Andries van Dam

September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3

Publisher: ACM Press





Full text available: [pdf\(3.08 MB\)](#)

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Relevance scale ☐ ☐ ☐ ☐ ☐**21 User interface specification using an enhanced spreadsheet model**

Scott E. Hudson

July 1994 **ACM Transactions on Graphics (TOG)**, Volume 13 Issue 3**Publisher:** ACM PressFull text available: [pdf\(2.01 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This paper describes a new interactive environment for user interface specification which is based on an enhanced spreadsheet model of computation. This environment allows sophisticated graphical user interfaces with dynamic feedback to be implemented with little or no explicit programming. Its goal is to support user interface specification by nonprogramming experts in human factors, visual design, or the application domain. In addition, the system is designed to allow sophisticated end-user ...

Keywords: automatic display update, constraint systems, direct manipulation, end-user programming, interface builders, prototype-instance-based inheritance, semantic feedback, user interface management systems

22 An environment for developing adaptive, multi-device user interfaces

John Grundy, Biao Yang

February 2003 **Proceedings of the Fourth Australasian user interface conference on User interfaces 2003 - Volume 18 AUIC '03****Publisher:** Australian Computer Society, Inc.Full text available: [pdf\(784.56 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

There is a growing demand for the development of multi-device, adaptive user interfaces - interfaces that will run on and adapt to the characteristics of multiple display devices and networks as well as multiple users and user tasks. We describe a design and implementation environment for the development of such interfaces. This tool allows developers to specify their desired interfaces using an abstract set of screen element and layout constructs. It then generates a Java Server Page implementa ...

Keywords: adaptive user interfaces, mobile user interfaces, multi-device user interfaces, thin-client user interfaces, user interface design tools

23 Terrain database interoperability issues in training with distributed interactive simulation



Guy A. Schiavone, S. Sureshchandran, Kenneth C. Hardis

July 1997 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 7 Issue 3

Publisher: ACM Press

Full text available: pdf(443.34 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

In Distributed Interactive Simulation (DIS), each participating node is responsible for maintaining its own model of the synthetic environment. Problems may arise if significant inconsistencies are allowed to exist between these separate world views, resulting in unrealistic simulation results or negative training, and a corresponding degradation of interoperability in a DIS simulation exercise. In the DIS community, this is known as the simulator terrain database (TDB) correlation problem. ...

Keywords: distributed interactive simulation, terrain databases

24 An efficient, portable authoring language for microcomputers



Mark Luker

December 1986 **Proceedings of the 1986 ACM SIGSMALL/PC symposium on Small systems**

Publisher: ACM Press

Full text available: pdf(868.88 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

An authoring language is a programming language that is optimized in some way for the efficient production of computer assisted instruction lessons. This paper summarizes nearly twenty years of experimentation and development of authoring languages at the University of Minnesota, then presents the main characteristics of a new language that embodies many of the lessons learned over this period. The new language is called AL, for author language. Based on Pascal, it is easily transportable a ...

25 The Personal Presence System—hardware architecture



M. Lukacs

October 1994 **Proceedings of the second ACM international conference on Multimedia**

Publisher: ACM Press

Full text available: pdf(957.84 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Personal Presence System (PPS) experimental prototype is being designed to support multiparty multimedia visual services which use advanced video combining techniques. This paper is a companion to another paper in this proceedings: "The Personal Presence System—A Wide Area Network Service Resource for the Real Time Composition of Multipoint Multimedia Communications" which contains a detailed service description. This paper describes the architecture of the A ...

26 Document Formatting Systems: Survey, Concepts, and Issues



Richard Furuta, Jeffrey Scofield, Alan Shaw

September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3

Publisher: ACM Press

Full text available: pdf(5.36 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

27 Query processing techniques in the summary-table-by-example database query

language

Gultekin Özsoyoğlu, Victor Matos, Meral Özsoyoğlu

December 1989 **ACM Transactions on Database Systems (TODS)**, Volume 14 Issue 4**Publisher:** ACM PressFull text available: [pdf\(3.52 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Summary-Table-by-Example (STBE) is a graphical language suitable for statistical database applications. STBE queries have a hierarchical subquery structure and manipulate summary tables and relations with set-valued attributes. The hierarchical arrangement of STBE queries naturally implies a tuple-by-tuple subquery evaluation strategy (similar to the nested loops join implementation technique) which may not be the best query processing strategy. In this paper we discuss the query ...

28 Industrial sessions: big data: The SDSS skyserver: public access to the sloan digitalsky server data

Alexander S. Szalay, Jim Gray, Ani R. Thakar, Peter Z. Kunszt, Tanu Malik, Jordan Raddick, Christopher Stoughton, Jan vandenBerg

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02****Publisher:** ACM PressFull text available: [pdf\(1.48 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The SkyServer provides Internet access to the public Sloan Digital Sky Survey (SDSS) data for both astronomers and for science education. This paper describes the SkyServer goals and architecture. It also describes our experience operating the SkyServer on the Internet. The SDSS data is public and well-documented so it makes a good test platform for research on database algorithms and performance.

29 Design technologies: Reading source code

Darrell R. Raymond

October 1991 **Proceedings of the 1991 conference of the Centre for Advanced Studies on Collaborative research****Publisher:** IBM PressFull text available: [pdf\(988.89 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Source code is, among other things, a text to be read. In this paper I argue that reading source code is a key activity in software maintenance, and that we can profitably apply experiences and reading systems from text databases to the problem of reading source code. Three prototype systems are presented, and the main features of their design are discussed.

30 Conference abstractsJanuary 1977 **Proceedings of the 5th annual ACM computer science conference****Publisher:** ACM PressFull text available: [pdf\(3.14 MB\)](#)Additional Information: [full citation](#), [abstract](#), [index terms](#)

One problem in computer program testing arises when errors are found and corrected after a portion of the tests have run properly. How can it be shown that a fix to one area of the code does not adversely affect the execution of another area? What is needed is a quantitative method for assuring that new program modifications do not introduce new errors into the code. This model considers the retest philosophy that every program instruction that could possibly be reached and tested from the ...

31 Audio enriched links: web page previews for blind users

Peter Parente



September 2003 **ACM SIGACCESS Accessibility and Computing , Proceedings of the 6th international ACM SIGACCESS conference on Computers and accessibility Assets '04**, Issue 77-78

Publisher: ACM Press

Full text available: [pdf\(229.96 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Audio Enriched Links provide previews of linked web pages to users with visual impairments. Before a user follows a hyperlink, the Audio Enriched Links software presents a spoken summary of the next page including its title, its relation to the current page, statistics about its content, and some highlights from its content. We believe that such a summary may be a useful surrogate for a full web page, and help users with visual impairments decide whether or not to spend time visiting a linked ...

Keywords: accessibility, speech preview, visual impairment, web page preview

32 The human-computer interface in information systems design: An investigation of the roles of individual differences and user interface on database usability



Steven S. Curl, Lorne Olffman, John W. Satzinger
December 1997 **ACM SIGMIS Database**, Volume 29 Issue 1

Publisher: ACM Press

Full text available: [pdf\(1.53 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This research seeks to understand to what extent leveraging the graphical user interface's ability to convey spatial information can improve a user's ability to write effective database queries. This capability is believed to be especially important when nontechnical individuals, with diverse backgrounds and cognitive abilities, are expected to interact directly with these systems in the query formulation process. This study makes use of recent developments in graphical user interface technology ...

Keywords: computer-human interaction, database queries, end-user computing, spatial representation, visualization ability

33 Coupling application design and user interface design



Dennis J. M. J. de Baar, James D. Foley, Kevin E. Mullet
June 1992 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Publisher: ACM Press

Full text available: [pdf\(898.20 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Building an interactive application involves the design of both a data model and a graphical user interface (GUI) to present that model to the user. These two design activities are typically approached as separate tasks and are frequently undertaken by different individuals or groups. Our approach eliminated redundant specification work by generating an interface directly from the data model itself. An inference engine using style rules for selecting and placing GUI controls (i.e., widgets) ...

Keywords: automatic user interface design, data models, user interface software

34 Image Models



Narendra Ahuja, B. J. Schachter
December 1981 **ACM Computing Surveys (CSUR)**, Volume 13 Issue 4

Publisher: ACM Press

Full text available: [pdf\(2.99 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

35 The application of spatialization and spatial metaphor to augmentative and alternative communication



P. Demasco, A. F. Newell, J. L. Arnott

October 1994 **Proceedings of the first annual ACM conference on Assistive technologies**

Publisher: ACM Press

Full text available: [pdf\(784.74 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The University of Delaware and the University of Dundee are collaborating on a project that is investigating the application of spatialization and spatial metaphors to interfaces for Augmentative and Alternative Communication. This paper outlines the project's motivation, goals, and methodological considerations. It presents a number of design principles obtained from a review of the HCI literature. Finally, it describes progress on the demonstration of this approach. This application calle ...

36 Cognitive overheads and prostheses: some issues in evaluating hypertexts



Patricia Wright

September 1991 **Proceedings of the third annual ACM conference on Hypertext**

Publisher: ACM Press

Full text available: [pdf\(1.06 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

37 Reviewed articles: SIGAda 2001 workshop, "creating a symbiotic relationship between XML and Ada"



Robert C. Leif

September 2002 **ACM SIGAda Ada Letters**, Volume XXII Issue 3

Publisher: ACM Press

Full text available: [pdf\(1.39 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The purpose of the workshop was to organize the Ada community to take advantage of the opportunity to create Ada applications that are operating systems independent because they are based on a web technology, XML, Extensible Markup Language. The commercial use of the Internet is the driving force behind XML. Four elements of XML, which together are sufficient to build a web application, and all employ the same syntax were described. These are XML; its schema; the Extensible Stylesheet Language, ...

38 The GemStone object database management system



Paul Butterworth, Allen Otis, Jacob Stein

October 1991 **Communications of the ACM**, Volume 34 Issue 10

Publisher: ACM Press

Full text available: [pdf\(6.60 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: GemStone, database management systems, object-oriented

39 The WebBook and the Web Forager: an information workspace for the World-Wide Web



Stuart K. Card, George G. Robertson, William York

April 1996 **Proceedings of the SIGCHI conference on Human factors in computing systems: common ground**

Publisher: ACM Press

Full text available:  pdf(2.32 MB)  Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
[html\(33.10 KB\)](#)

Keywords: 3D graphics, World Wide Web, information access, information workspace, user interfaces, workspace

40 Fast multiresolution image querying



Charles E. Jacobs, Adam Finkelstein, David H. Salesin

September 1995 **Proceedings of the 22nd annual conference on Computer graphics and interactive techniques**

Publisher: ACM Press





Full text available:  pdf(529.14 KB)  ps(211.52 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: content-based retrieval, image databases, image indexing, image metrics, query by content, query by example, similarity retrieval, sketch retrieval, wavelets

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The table lens: merging graphical and symbolic representations in an interactive focus+ context ... - group of 13 »

R Rao, SK Card - Proceedings of the SIGCHI conference on Human factors in ..., 1994 - portal.acm.org

... q Region Type. cells in focal, **column** focal, **row** focal, or ... **Columns** can be rearranged by grasping the **column** label and moving it to a new position in the **table**. ...

Cited by 260 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Multi-table joins through bitmapped join indices - group of 5 »

PO'Neil, G Graefe - ACM SIGMOD Record, 1995 - portal.acm.org

... as an orders **table** (where an order **row** contains a ... bitmap representations, which allow predicates restricting **columns** ... in the central detail **table**; the method ...

Cited by 116 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

The biplot graphic display of matrices with application to principal component analysis - group of 2 »

KR GABRIEL - Biometrika, 1971 - biomet.oxfordjournals.org

... **row** differences best approximate the **row** differences of ... squaresfit(first singular component) from **Table 1**, with next two singular values, rows and **columns** ...

Cited by 272 - [Related Articles](#) - [Web Search](#)

Storing a sparse table - group of 5 »

RE Tarjan, ACC Yao - Communications of the ACM, 1979 - portal.acm.org

... We leave the details to the reader. By combining **row** and **column** displacements, we obtain the following **table** storage scheme. ...

Cited by 106 - [Related Articles](#) - [Web Search](#)

Query-by-Example: A Data Base Language - group of 4 »

MM Zloof - IBM Systems Journal, 1977 - research.ibm.com

... print operator is applied against the whole **row** of headings ... ie, all **table** names and their corresponding **column** names. ... the TYPE **table** and the SALES **table** by gener ...

Cited by 546 - [Related Articles](#) - [View as HTML](#) - [Web Search](#)

A 256× 256 CMOS imaging array with wide dynamic range pixels and column-parallel digital output - group of 5 »

S Decker, D McGrath, K Brehmer, CG Sodini, C MIT - Solid-State Circuits, IEEE Journal of, 1998 - ieeexplore.ieee.org

... of its integration period, its **row** select turns on ... The **column**-parallel switched-capacitor CDS circuit reduces ... **Table II** gives measured performance statistics for ...

Cited by 98 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Garp: A MIPS Processor with a Reconfigurable Coprocessor - group of 23 »

JR Hauser, J Wawrzynek - IEEE Symposium on FPGAs for Custom Computing Machines, 1997 - doi.ieeeecs.org

... The most important are listed in the **table** of Fig ... in the D registers of **row 1** are added together and their sum stored in the Z registers of **row 1**. **Column 4** is ...

Cited by 444 - [Related Articles](#) - [Web Search](#)

Algorithm AS 159: An Efficient Method of Generating Random R*C Tables with Given **Row** and **Column** ... - group of 2 »

WM Patefield - Applied Statistics, 1981 - JSTOR

... Theory Under the null hypothesis of no association between **row** and **column** categories, the joint probability distribution of a **table** (a_{ij} , $1 \sim i \sim r$, $1 \sim j$...

Cited by 46 - [Related Articles](#) - [Web Search](#)

Four Multidetector-**Row** Helical CT: Image Quality and Volume Coverage Speed1 - group of 4 »

H Hu, HD He, WD Foley, SH Fox - 2000 - radiology.rsna.org

... by using those in the left **column** as benchmarks ... two viewing sessions) are summarized in **Table 4**. Streak ... and midpelvis on the four multidetector-**row** studies (5.0 ...

Cited by 306 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Improved parallel I/O via a two-phase run-time access strategy - group of 3 »

JM del Rosario, R Bordawekar, A Choudhary - ACM SIGARCH Computer Architecture News, 1993 - portal.acm.org

... **Row**-Cyclic % of Tot. ... Upon examination of the one exception (**table 10: Column**-Cyclic), we see that the pre- dominant cost arises from redistribution. ...

Cited by 122 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

An Algorithm for **Row-Column** Self-Repair of RAMs and Its Implementation in the Alpha 21264 - group of 3 »

DK Bhavsar - Proc. Int. Test Conf.(ITC), 1999 - doi.ieee.computersociety.org

... 1. Partition a **large** RAM array into several small identical ... **Table 2: Spare Allocation Logic** ... 64Kbytes each) are implemented using the **row-column** repair strategy ...

Cited by 36 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

ADE-4: a multivariate analysis and graphical **display** software - group of 10 »

J Thioulouse, D Chessel, S Dole dec, JM Olivier - Statistics and Computing, 1997 - Springer

... The '**Row** & Col. ... Graphics corre- sponding to other **columns** of the data **table** (quantitative variables) would also be placed side by side 79 ...

Cited by 394 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

One Degree of Freedom for Non-Additivity

JW Tukey - Biometrics, 1949 - JSTOR

... and Means Sums Means Analysis of Variance Notice that all semblance of **row** or **column** effects have now van- ished, although **Table 1** showed **large** and significant ...

Cited by 142 - [Related Articles](#) - [Web Search](#)

The Wisconsin multicube: a new **large-scale** cache-coherent multiprocessor - group of 2 »

JR Goodman, PJ Woest - Proceedings of the 15th Annual International Symposium on ..., 1988 - portal.acm.org

... Furthermore, the size of the modified line **table** is proportional to the number of ... This includes $n+1$ **row** bus accesses and 3 **column** bus accesses. ...

Cited by 112 - [Related Articles](#) - [Web Search](#) - [Library Search](#)

Good features to track - group of 10 »

J Shi, C Tomasi - Computer Vision and Pattern Recognition, 1994. Proceedings ..., 1994 - ieeexplore.ieee.org

... frame 4 indicates the occlusion, The bottom **row** of figure ... the four circular blobs shown in the leftmost **column** of figure 6. The three mo- tions of **table 1** are ...

Cited by 1010 - [Related Articles](#) - [Web Search](#) - [Library Search](#) - [BL Direct](#)

Tests for Linear Trends in Proportions and Frequencies

P Armitage - Biometrics, 1955 - JSTOR

... value of y (and hence of p) is the same for all **columns**. ... 3) Here the denominator is taken from the "Total" **row** in the analysis of variance **table**, but with ...
[Cited by 352](#) - [Related Articles](#) - [Web Search](#)

Reducing the bandwidth of sparse symmetric matrices

E Cuthill, J McKee - Proceedings of the 1969 24th national conference, 1969 - portal.acm.org
 ... **TABLE 4** ... to techniques for the analysis of the structure of **large** systems of ... 9. R.
 P. Tewarson, "Row-Column permutation of sparse matrices." Computer Journal 10 ...
[Cited by 287](#) - [Related Articles](#) - [Web Search](#)

[BOOK] Row Projection Methods for Large Nonsymmetric Linear Systems - group of 4 »

RB Bramley, A Sameh - 1990 - cs.indiana.edu
 ... A **row** partitioning approach is described which yields parallel implementations suitable for a **wide** range of computer ... $Ax = b$, where A is **large**, ...
[Cited by 47](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#) - [Library Search](#)

Efficient and effective placement for very large circuits - group of 5 »

WJ Sun, C Sechen - Computer-Aided Design of Integrated Circuits and Systems, ..., 1995 - ieeexplore.ieee.org
 ... it would be very difficult to find feasible moves for the very **wide** clusters and ...
 For **large** ... Randomly select cell a Randomly select **row** rand location x in $r \cdot l^* x$...
[Cited by 157](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Improved query performance with variant indexes - group of 25 »

PO'Neil, D Quass - SIGMOD REC, 1997 - cs.duke.edu
 ... The **SALES table** has a **column** named dollar_sales, which represents for each **row** the dollar amount received for the sale. ...
[Cited by 223](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#) - [BL Direct](#)

[PS] Large-scale sparse singular value computations - group of 20 »

MW Berry - International Journal of Supercomputer Applications, 1992 - netlib.bell-labs.com
 ... that r and c are the average number of nonzeros per **row** and **column**, respectively ...
 each sparse matrix listed in **Table 1** is dened to be the ratio (Rows **Columns** ...
[Cited by 199](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#)

OLAP, relational, and multidimensional database systems - group of 4 »

G Colliat - ACM SIGMOD Record, 1996 - portal.acm.org
 ... dimension. The **Fact table** contains one **row** for each set of measures and a dimension-id **column** for each dimension. Rollup ...
[Cited by 107](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Breaking row and column symmetries in matrix models - group of 16 »

P Flener, AM Frisch, B Hnich, Z Kiziltan, I Miguel ... - Proceedings CP'02, 2002 - Springer
 ... In this case, the matrix is obvious in the modelling of the problem: we need a **table** of fixtures. ... The two examples above have **row** and **column** symmetries. ...
[Cited by 68](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Wrapper Generation for Web Accessible Data Sources - group of 13 »

JR Gruser, L Raschid, ME Vidal, L Bright - Proceedings of the 3rd IFCIS International Conference on ..., 1998 - doi.ieeecomputersociety.org
 ... are the **column** URLConstructor, and the **column** HTMLEx- tractor. ... the wrapper capability **table**; (3) specify the URL ... The second-row window of Figure 5 shows some ...
[Cited by 92](#) - [Related Articles](#) - [Web Search](#)

Efficiently supporting ad hoc queries in large datasets of time sequences - group of 12 »

F Korn, HV Jagadish, C Faloutsos - Proceedings of the 1997 ACM SIGMOD international conference ...,

